FOR MYSORE STATE

Fisheries development (1950) Department

Ms SERIES.

G.O. NO. 265

Dated 31-3-50

[Despatch Abstract.]

Pamphlets — Hints on the preparation of artificial farmyard manure — printing and supply of — Reports. Recorded

for Mysore

FIRKA DEVELOPMENT DEPARTMENT.

-:0:-

Memorandum No.32294 F.D.,I/49-8 dated 23-12-1949.

Sub:- pamphlets - Hints on the preparation of Artificial Farmyard Manure - Printing and Supply to Firka Development Officers - Distribution.

Ref:- Government Memorandum No.32294 F.D.I/49-6 dated 14-10-49.

The Regional Firka Development Officers and the Firka Development Officers are informed that the Superintendent, Government Press, Madras has been asked to print and supply direct to them. Copies of "Hints on the preparation of artificial and faryard manure", in the local regional languages. They are requested to distribute widely ~~in~~ the pamphlets when received from the Superintendent, Government press to the agriculturists in their respective areas.

2. In continuation of the memo cited a distribution list showing the number of copies to be supplied in each vernacular language to the Regional Firka Development Officer and Firak Development Officers and containing particulars regarding the postal adress and the nearest Railway Station to their headquarters, is sent herewith to the Superintendent, Government press. He is requested to print and supply direct the

P.T.O.

the pamphlets to the officers concerned at an early date as shown in the distribution list and report the fact to Government. He is also requested to furnish this Department with 5 speciman copies of the pamphlet in each of the languages in which it is printed.

Sd. x x x
Assistant Secretary to Government.

To the Regional Firka Development Officers (North and South).
All Firka Development Officers.
The Superintendetn, Government press, Madras (with encls.)

/True copy/

hch.1/6.

SUPERINTENDENT.

Firka Dev. Dept.I.

Extracts of the remarks made by the Secretary during the course of the study of the F.D. Scheme.

xx xx xx

COMPOSTING MANURE

Composting of manure available in villages is of considerable importance. It would appear that there is a special officer employed in the Agricultural Dept. for the purpose of popularising composting of manure. A simple note as to how manure could be composted in village may be obtained from this expert and communicated to F.D.Os. and V.D.Os. for information. Copies of the notes may also be distributed in local languages for the benefit of the agriculturists.

xx xx xx

M.S.J.
5-7-49.

Office Note.

Please see the extracts of the Secretary's remarks above. A draft memo to the D.A. asking him to prepare a pamphlet as to how best manure could be composted in villages is submitted for approval. On receipt of the note from him further action will be taken. Dev. may see.

Draft accepted.

May issue.

(issued as memo No.32294 F.D.I/49-2 dated 26-7 -49)

From the D.A.Madras No.L.Dis.L.2.1230/49 dated 5-8-49.

From the D.A.Madras No.L.Dis.L2-1357/49 dated 25-8-49.

Please see the D.A's letter on pages 9 and the enclosure thereto on pages 11-12 with reference to the Government Memo on pages 7-8 c.f. The D.A. has sent a note on "Rural Compost" which contains hints on the preparation of Artificial Farm yard Manure (compost manure). For orders whether the note will be got printed in all the important South Indian languages for distribution among the villagers in the

selected firkas and centres. Subject to orders a draft memo to the S.G.P. and the Senior Translatixxor is submitted for appointment. (The distribution list to the S.G.P. may be sent later) Dev. and E & P.H. may see before issue.

Food & Agri.(N).Dept.

May be perused and passed on to E & P.H.

F.D.U.o 32294 F.D.I/49-4 dt 14-9-49

E & P.H. Dept.

The draft memo may be perused and the file returned to Firka Development u.o.

F.A.U.o 4214N/49-1 dt 21-9-49

Firka Dev. Dept.

To A.S.

Finance have not seen the draft as originals marked for. This may now be sent to Finance for perusal of the draft below.

E.& P.H.U.o 73425 G1/49 dt 27-9-49

Finance (Exp.B.)

The notes on pp. 1-3 above and the draft memo below may be perused and the case returned to Firka Development. The cost involved in the proposal has not been indicated. It will not be large.

F.D.U.o 32294 F.D/49-5 dt 4-10-49

Firak Development Dept.

To A.S.

The draft below may now issue. (This will be resubmitted with reference to the distribution list).

F in 643039 B. 2-5-10-49

(Issued as Memo No.32294 F.D.I/49-6 dated 14-10-1949).

To A.S.

Please see the portion 'K' in the memo on p. 13 c.f. and orders above. Submitted that the particulars of quarters, postal addresses and the nearest railway sation to the offices of the F.D.Os. will have to be furnished to the S.G.P., Madras to enable him to despatch

I think this is available with A I Section. Please find out.

F.D. II may kindly state whether the above particulars are available with them.

the pamphlets direct to the F.D.Os. Upto date particulars above the Headquarters of the F.D.Os. and the nearest Ry. Station to their offices are not available in office. For orders whether the particulars may be called for from the R.F.D.Os. Subject to orders a draft memo is submitted for approval.

(Issued as Memo No.32294 F.D.I/49-7 dated 17-11-1949).

From the R.F.D.O.(S) L.Dis.837-49 dated 26-11-1949.
From the R.F.D.O(N) L.Dis.4500/49 dated 28-11-1949.

To A.S.

Please see the statements sent by the R.F.D.Os. showing the particulars of the headquarters, postal address etc. of the F.D.Os, on pages 19-23 c.f. A distribution list may now be sent to the S.G.P. incontinuation of the memo on p. 13 c.f. The 50,000 Tamil copies ordered to be printed may be supplied to the 14 Tamil firkas at the rate of 3,500 copies each. The balance of 1,000 copies may be supplied to the R.F.(S). The 60,000 Telugu copies may be supplied to the 17 Telugu firkas at 3,500 each. The balance of 500 may be sent to the R.F.(N). The 7,000 Malayam copies may be distributed between the Tellichery and Payyamur firkas at 3,500 each. Out of the 5,000 Kanerese copies 4,000 may be supplied to the Kumbla firka and the balance of 1,000 may be redistributed to the Alur and Hinpur firkas at 500 each, which are bi-lingual areas. Subject to orders a draft memo is submitted for approval.

The R.F.D.Os. and the F.D.Os. may also be informed that the pamphlets supplied to them shouldbe distributed to the Agriculturists in their respective areas. Subject to orders para 1 of the draft below provides for this.

(Issued as memo No.32294 F.D.I/49-8 dated 23-12-1949).

From the S.G.P. Madras, No.IP.M.1251 dated 27-12-1949 and T.M. dated 4-1-1950.

To A.S.

Please see the letter and the T.M. from the S.G.P. on pages 27 and 29-30 c.f. The distribution list referred to, has since been despatched to the S.G.P. The distribution report and the speciman copids of the pamphlet called for from the S.G.P. may be

awaited.

From the S.G.P., Madras No.81356/I.P.D.M dated 23-1-1950.

To A.S.

The S.G.P. has sent 5 specimen copies of the pamphlet in each of the languages in which it was ordered to be printed. But he has not reported whether the pamphlets have been sent to the F.D.Os. as per the distribution list. He may be asked to report specifically. Subject to orders a draft memo is submitted for approval.

From the S.G.P., Madras I P.D.M./278 Publ dated 24-1-1950.

To A.S.

Subject to orders the draft below has not been issued. Please see the note on page 89 c.f. since received from the S.G.P. It is reported that copies of the pamphlets are being sent to all F.D.Os. except the F.D.Os. of Alur and Kanupur firkas. The parcels intended for these two F.D.Os. sent for Booking to Hosaperi and Venkatachelasatram Rly. stations respectively are said to have been returned unbooked stating that there are no such Railway Stations. The S.G.P. therefore requests information about the correct Railwey Stations for booking of these parcels. The Rly. stations referred to above are presumably Halt stations only to where no booking of parcles is accepted. No information is available in the office regarding the nearest railway stations for booking of parcels to the F.D.Os. of Alur and Kanupur firkas For orders whether the R.F.D.O.(N) may be asked to furnish the information direct to the S.G.P. Subject to orders, ad raft memo is submitted for approval.

(Issued as memo No.32294 F.D.I/49-1 dated 20-2-1950)

As per the oral orders of the P.F.D.O. the case is submitted for K.S.Os. perual.

I have already sent the draft scheme to the section.

From the R.F.D.O(N), L.Dis.320-50 dated 24-2-1950.

To A.S.

To A.S.

Please see the copy of the R.F.D.Os. letter on p. 93 c.f. addressed to the S.G.P. with reference to this Dept. memo on pages 91-92 c.f. The S.G.P. will no doubt send the pamphlets to the correct addresses since furnished by the R.F.D.O. No further action appears called for in this file. The papers may now be recorded as G.O.Ms.

G.O.Ms.No.265 dated 31-3-1950.

pamphlets - Hints on the preparation of farmyard manure - printing and supply of - papers - Recorded.

/True copy/

M.N. Shanelles
SUPERINTENDENT.

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Copy of Letter L.Dis.L.2.1357-49 dated 25-8-1949 from the Director of Agriculture, Chepauk, Madras to the Secretary to Government, Firka Development Department, Fort St. George, M a d r a s.

Sub:- Rural Re-construction - Intensive work in selected firkas and Centres - Scheme - composting of manure - Note.
Ref:- Govt. Firka Dev. Dept. Memo No.32294-F.D.1.49-3 dated 22-8-49.

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I enclose herewith a copy of the printed note from the villagers Guide and Calender.

M.Kantiraj,
for Director of Agriculture.

/True copy/

6. HINTS ON THE PREPARATION OF ARTIFICIAL FARMYARD MANURE (COMPOST MANURE).

Application of adequate amounts of bulky organic manure for providing humus to the soil is an absolute necessity for maintaining soil fertility and for increased crop production. As the farmyard manure the chief source of supply of humus to the soil is however greatly inadequate to meet the needs of the existing areas under crop, attempts to tap other courees of supply led to the result that any carbonaceous organic material such as agricultural wastes, weeds, leaves, grass, etc., can be easily converted at no great cost into a substance similar in appearance and manurial value to the farmyard manure by comparatively simple methods.

On a consideration of the several methods of composting developed by different workers in India, the following general procedure is recommended for adoption:-

Pits 5' to 6' broad, 15' to 20' long and not more than 3' deep, may be dug on elevated ground. The organic material, preferably a mixture of several waste substances, isspread on the bottom of the pit to a depth of 6" to 9". If the basic material is dry, it may be dipped in water and the water drained, before putting in the pit. If moist, the stuff may be placed straightaway in the pit. Wood ashes and urine earth are sprinkled over the layer of the organic matter followed by a fairly thick emulsion of cowdung. Another layer of the raw material is piled above to a thickness of 6" to 9" and treated with wood ashes, urine earth and cowdung water as described for the first layer. The heap in the pit is thus built up to a foot or two above ground level. The surface layer may be made dome-shaped and treated with cowdung water, wood ashes andurine earth. After four or five days, the top

and

surface is covered with a 3 to 4 inch layer of earth. The earthxx cover serves to conserve the moisture within the heap, to prevent rain water getting in and to absorb any ammonia that might otherwise escape into the air.

After five to six months and with ordinary materials, not too coarse or woody, the decomposition will be found tobe satisfactory. If the manure is required sooner, the heap may be opened at the end of the first month and the contents given a turning with adequate watering and replied. Two more turnings at the end of the second and third months will complete the decomposition. Frequent turnings and waterings no doubt promote the rate of decompsoition but add considerably to the cost of production.

The main consderatiors that have to be borne in mind in converting farm and other wastes into compost manure by biological means are as follows:—

(1) AN ADEQUATE SUPPLY OF AVAILABLE NITROGEN.- This condition is more likely to be attainable by putting into the compost heap a mixture of a variety of substances than material of a particular kind. Cowdung and particularly urine earth provide nitrogen as well as the organisms needed for decomposition.

(2) PROPER AERATION AND MOISTURE.- As the fermentation is brought about chiefly by aerobic organisms, the heap must be so built as to allow sufficient air but not an excess leading to drying up of the heap. The moisture may be maintained at about 50 to 60 per cent of the material.

(3) A NEUTRAL REACTION.- As the products of decomposition are likely to produce acid conditions in the heap and as a neutral or even aslightly alkaline reaction is considered favourable, sprinkling of wood ashes over every layer of the material is recommended.

The compost manure prepared as above has been found to compare very favourably with farmyard manure in respect of soil improvement and increase crop xxxxxx production.

/True copy/

FIRKA DEVELOPMENT DEPARTMENT.

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Memorandum No.32294 F.D.I/49-6, dated the 14th October 1949.

Sub :- pamphlets - Hints on the preparation of Artificial Farm yard Manure - Printing and Supply.

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The Superintendent, Government press, Madras is requested to print and supply to the Firka Development Officers copies of the enclosed pamphlet "Hints on the preparation of artificial farmyard manure (compost manure)" in Tamil, Telugu, Malayalam and Kanarese.

The number of copies required in each language is indicated in the annexure. A distribution list will be sent separately.

The Senior Translator to the Government is requested to get the matter translated into the languages referred to, and send them to the Superintendent, Government press, Madras urgently so as to enable him to print and supply the copies as early as possible.

Sd, x x x
Assistant Secretary to Government.

To the Superintendent, Government Press, Madras (with a copy of the pamphlet).
To the Senior Translator to the Government, Madras (with four copies of the pamphlet).

/True copy/

hch.1/6. SUPERINTENDENT.

ANNEXURE.

S.No.	Language.	No. of copies to be printed.
1.	Tamil	50,000
2.	Telugu	50,000
3.	Malayalam	7,000
4.	Kanarese	5,000

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